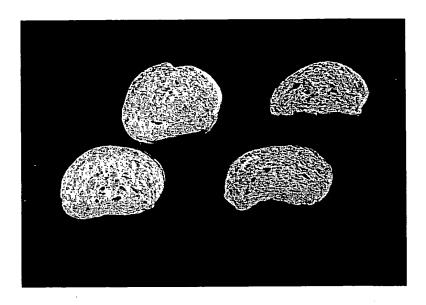
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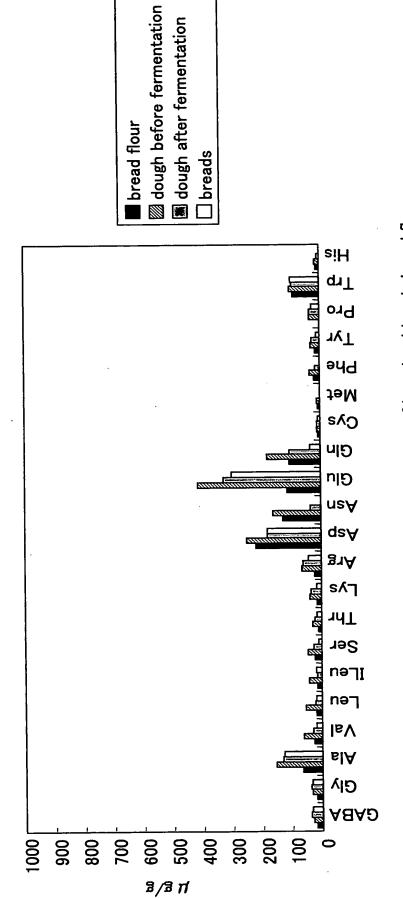
FIG.1



breads manufactured with different mixed ratio of malt flour



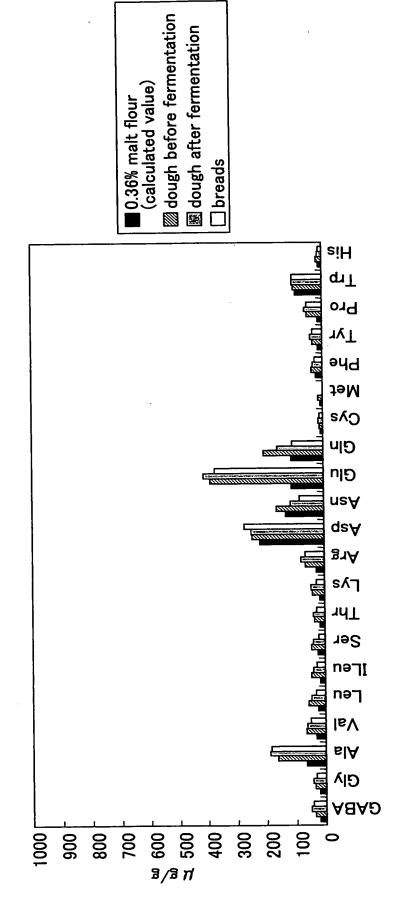
bread flour only



free amino acids contents during the manufacturing process of breads with only bread flour

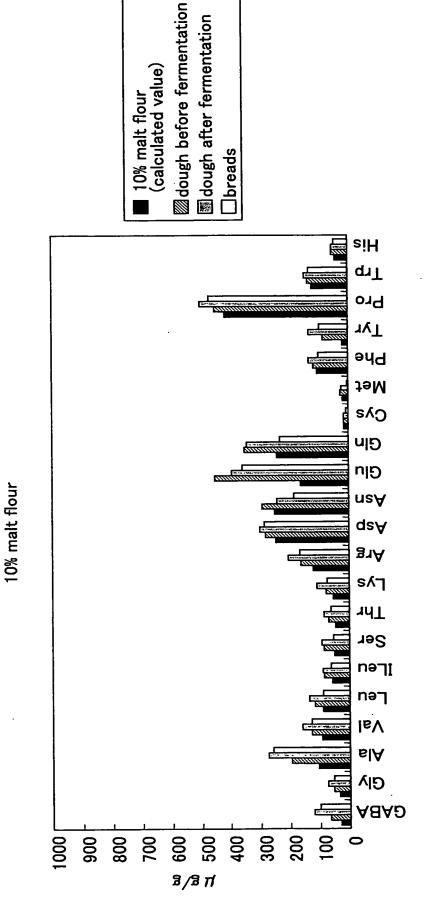


0.36% malt flour



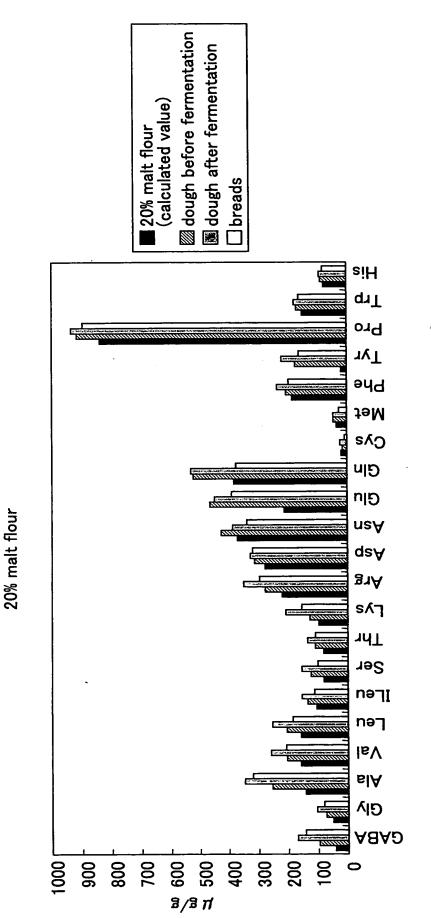
free amino acids contents during the manufacturing process of breads with 0.36% of mixed ratio of malt flour





free amino acids contents during the manufacturing process of breads with 10% of mixed ratio of malt flour

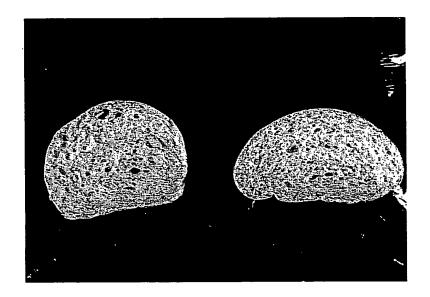




free amino acids contents during the manufacturing process of breads with 20% of mixed ratio of malt flour

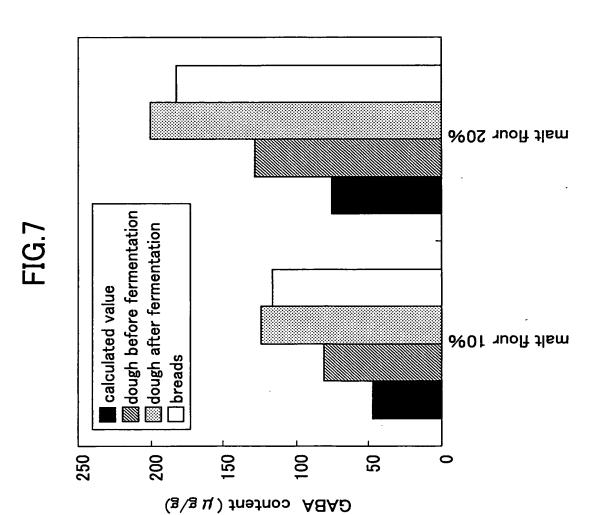
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FIG.6



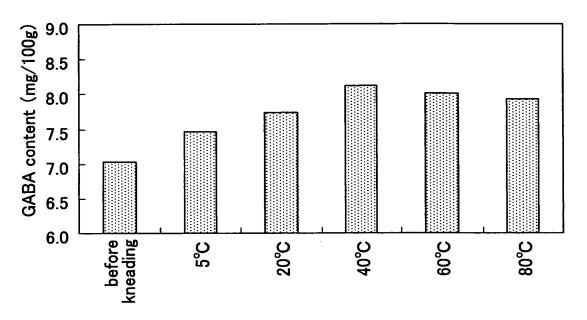
breads manufactured with malt which is treated only in the soaking process

.....



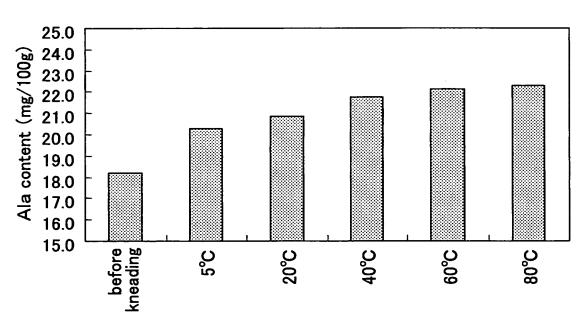
the GABA content during the manufacturing process of breads manufactured with malt only processed in the soaking process

FIG.8



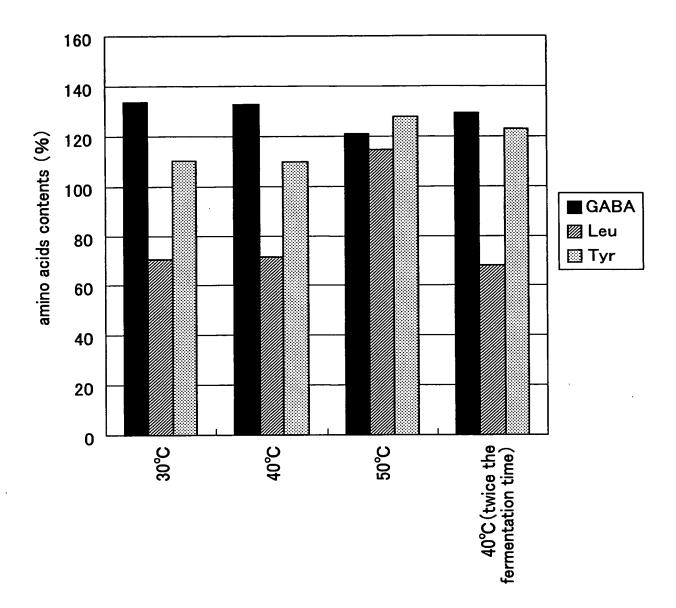
GABA content before kneading and after kneading

FIG.9



Ala content before kneading and after kneading

FIG.10



increasing rate of free amino acids contents in breads dough during the fermentation process for manufacturing breads

FIG. 1

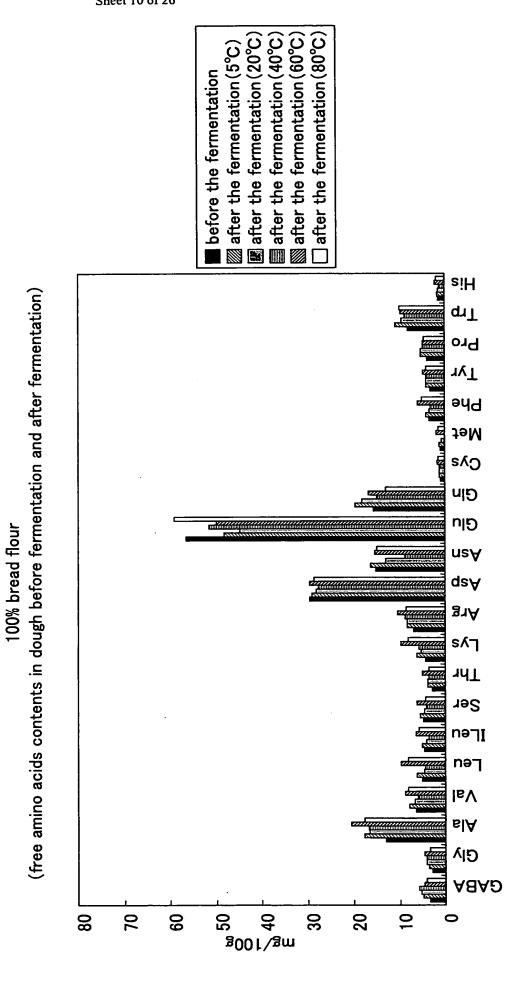


FIG. 12

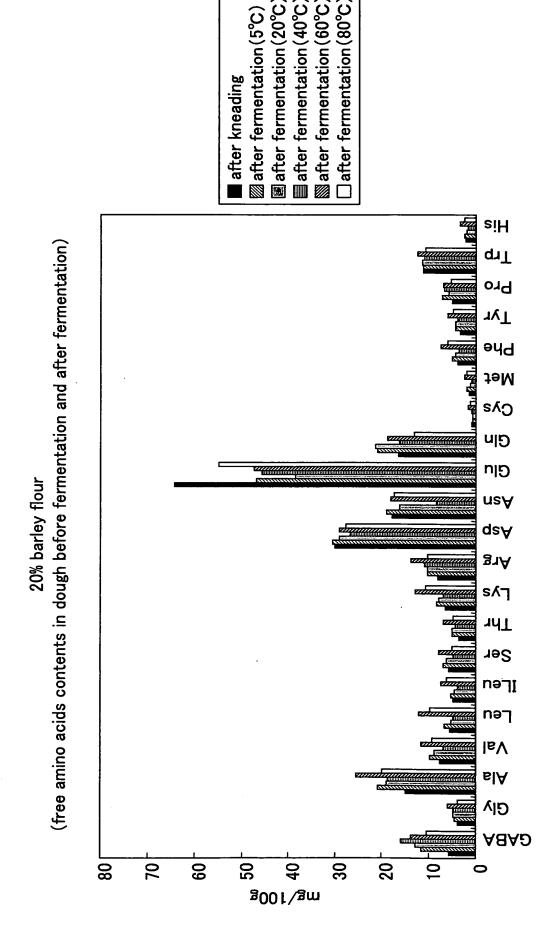


FIG. 13

20% germinated barley flour

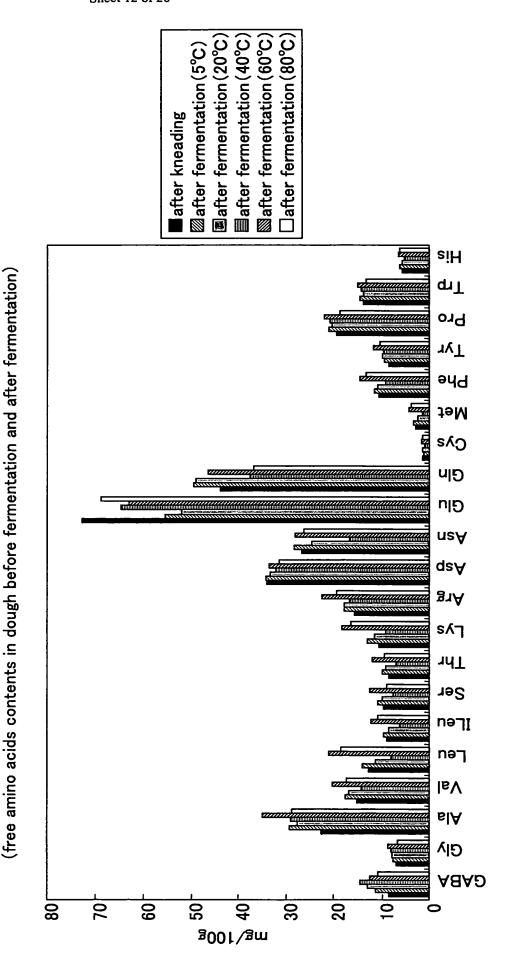
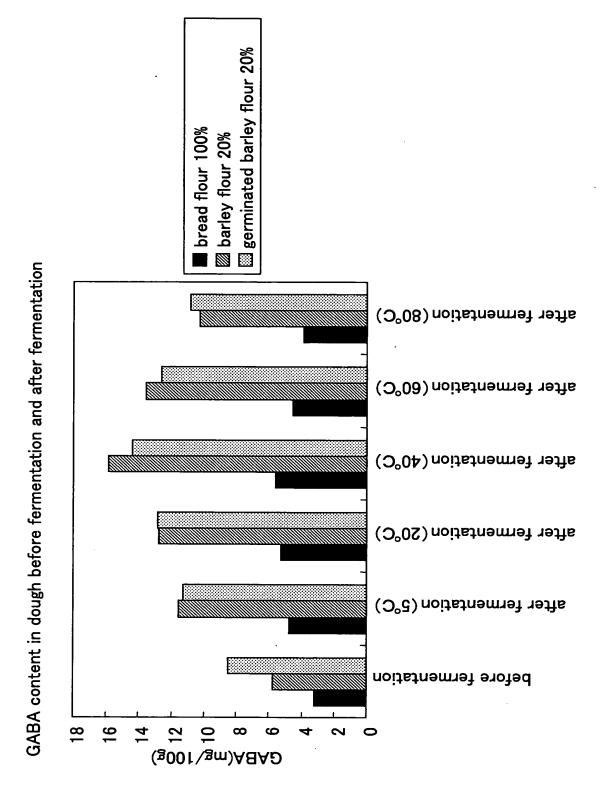
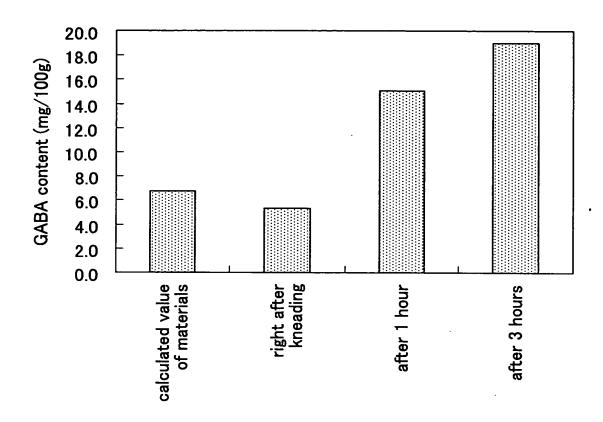


FIG.14



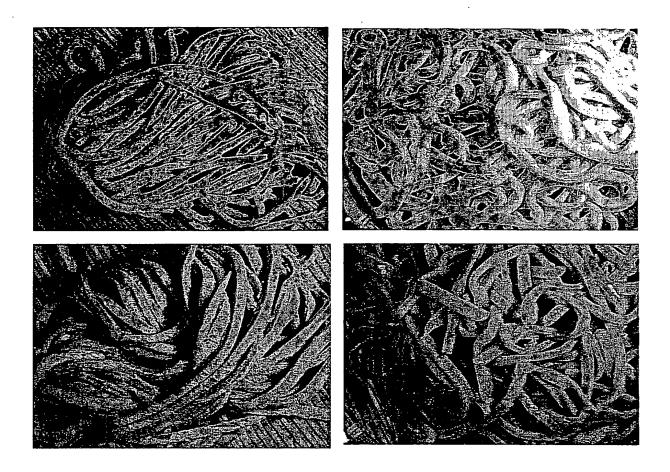
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FIG.15



a change of the GABA content during manufacturing process of pasta

FIG.16



outer appearances of udon which has a mixed ratio of 0% malt and 20% malt

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FIG.17



outer appearance of soba-like noodles

FIG. 18



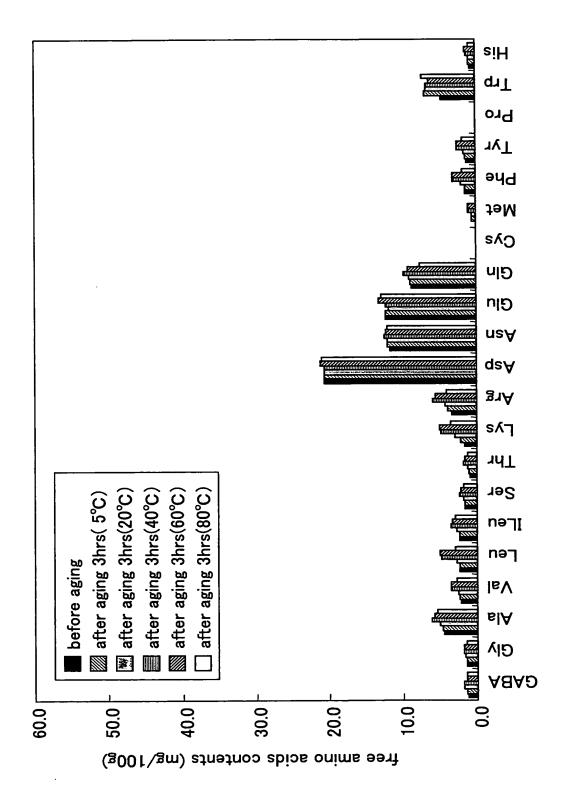
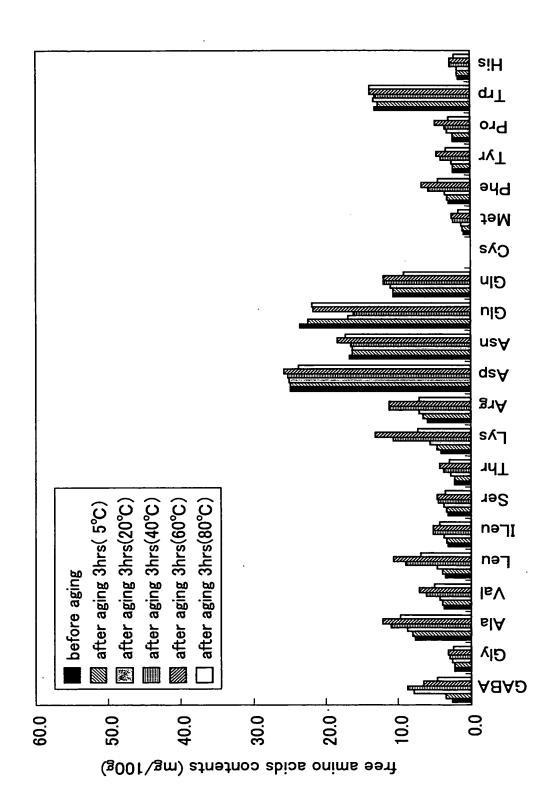
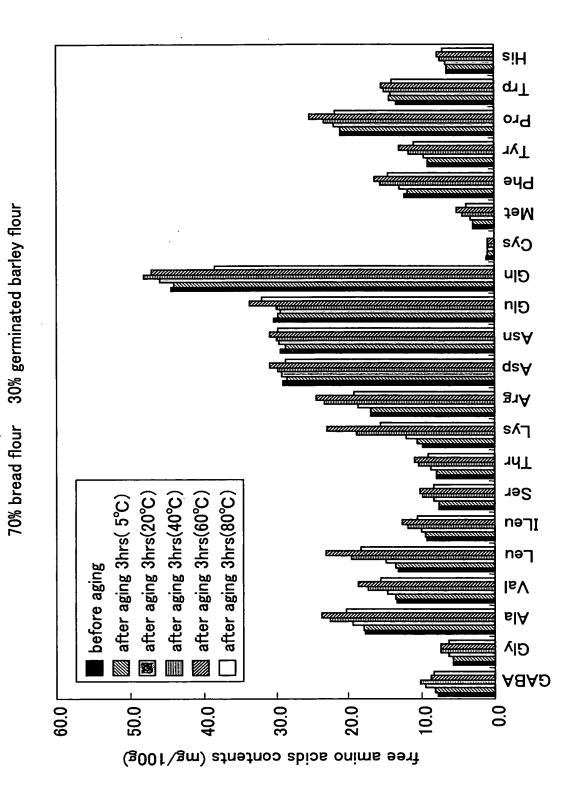


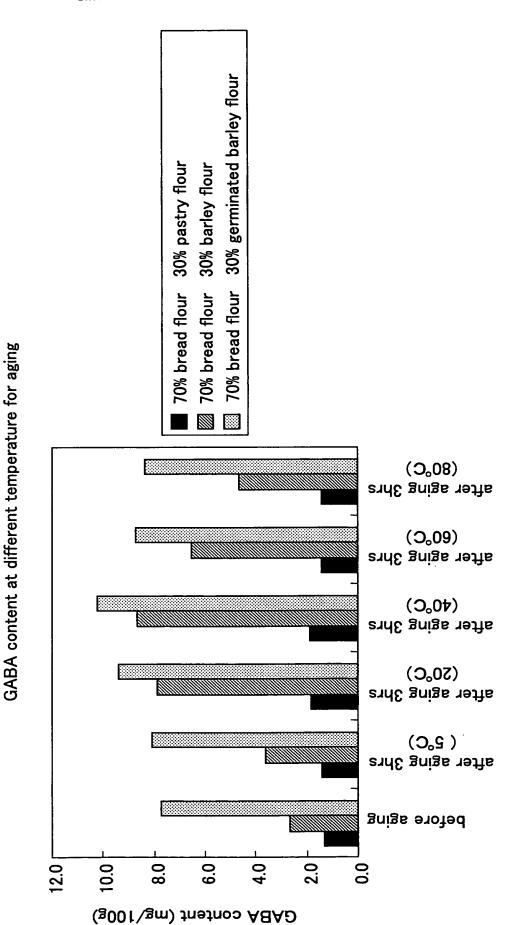
FIG. 19

70% bread flour 30% barley flour









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FIG.22

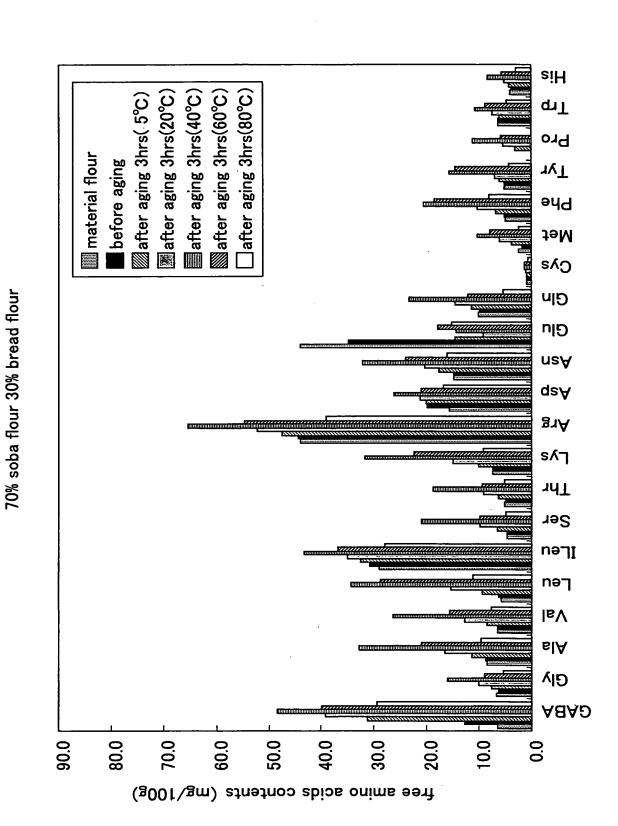


FIG.23

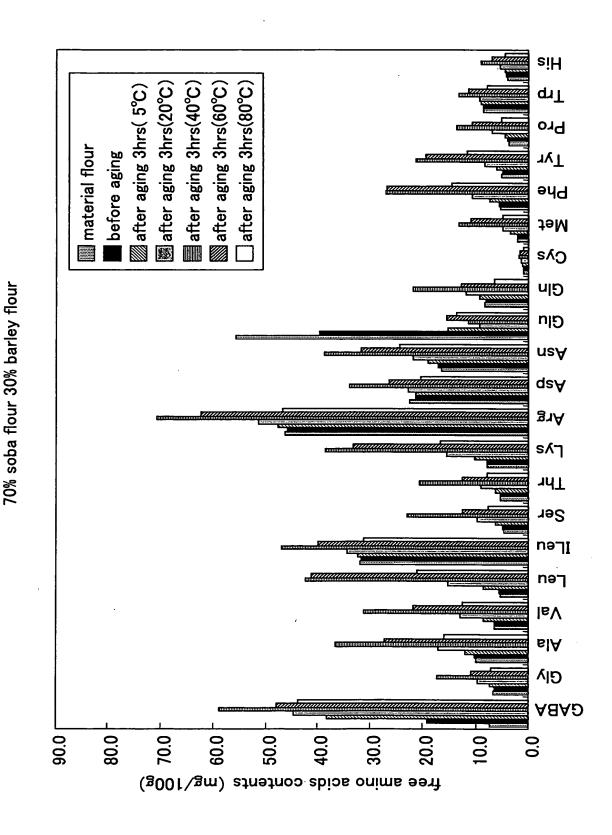
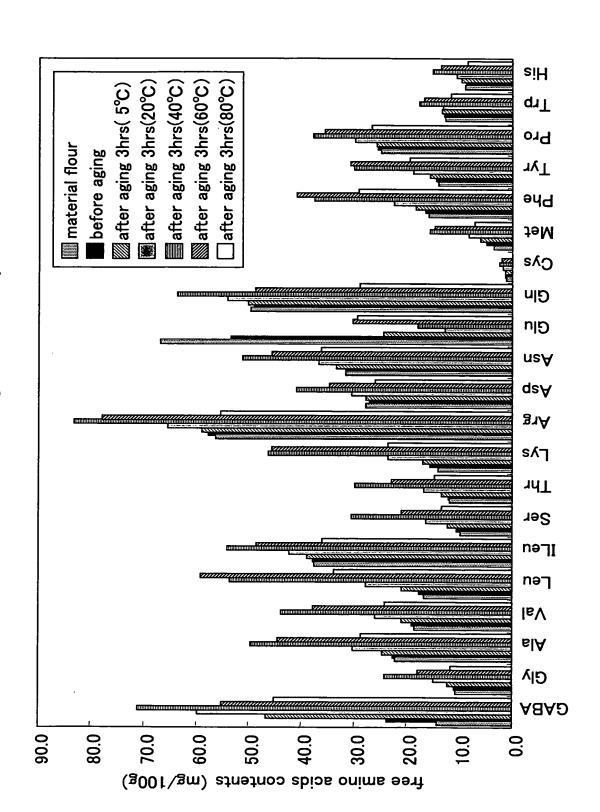
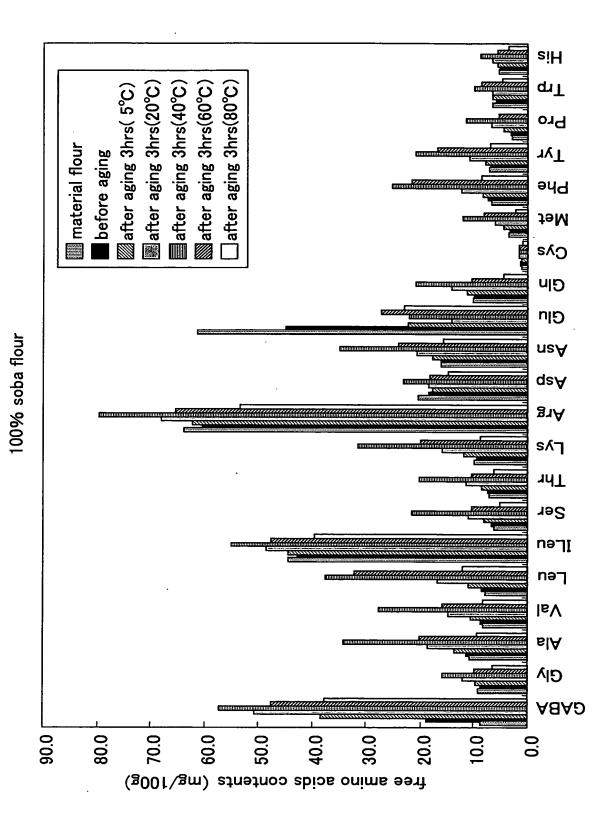


FIG.24

70% bread flour 30% germinated barley flour







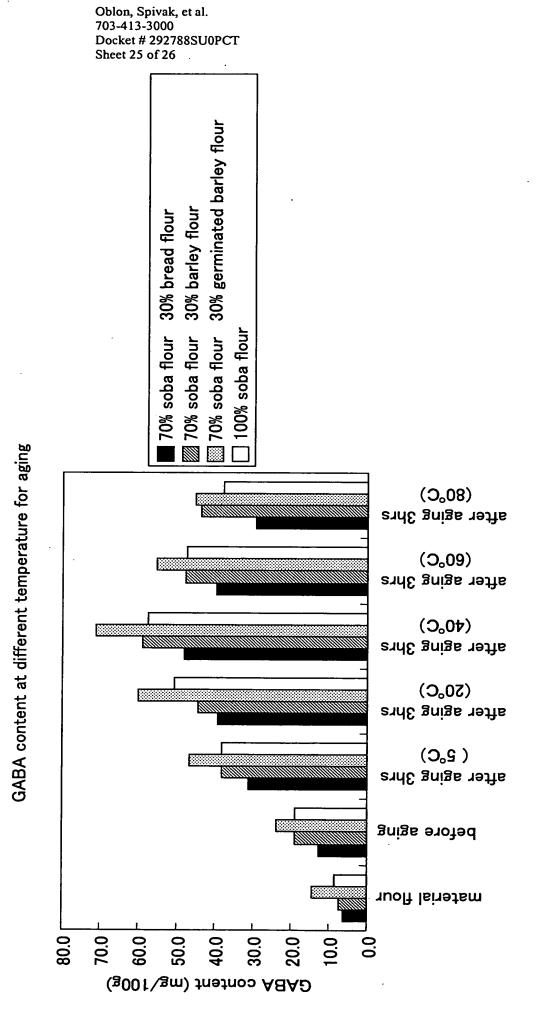
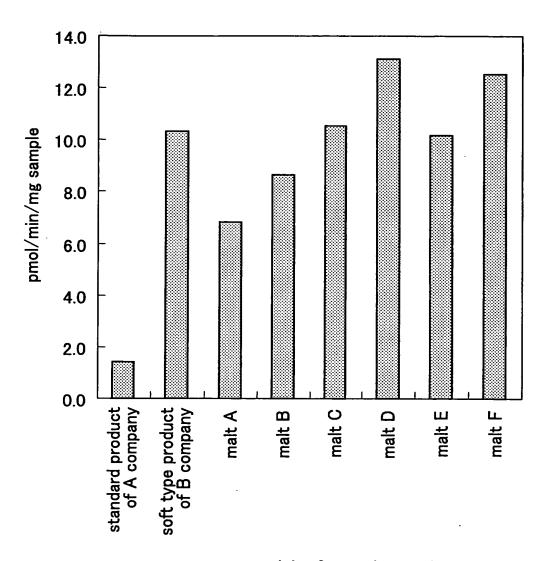


FIG.27



protease activity for each sample